Morgania carnifex (Gerst.).

Omachthes carnifex, Gerst. Cape of Good Hope.

Morgania histrio (Gerst.).

Omachthes histrio, Gerst.
Cape of Good Hope.

Oxystoglossa decorata, Smith.

Type ?. Jamaica.

Second submarginal cell very narrow; eyes emarginate; hind spur of hind tibia strongly curved, simple.

Rhathymus quadriplagiata, Smith.

Mexico.

This species shows an extraordinary resemblance to Scolia guttata, Burm. Ashmead gives the maxillary palpi of Rhathymus as 4-jointed; but this must be a slip of the pen, as they are actually absent, as Gerstaecker and others have stated. In Eurytis funereus, Sm., which looks like Rhathymus atra, Sm., they are 3-jointed (the first and third joints very short, second very long), not 1-jointed as Smith states. This observation is based on Smith's type.

XXX.—The Halictine Bees of the Australian Region. By T. D. A. Cockerell.

The Halictine bees of Australia were studied and described many years ago by Mr. F. Smith: since his death they have received practically no attention; and owing to the brevity of the published descriptions and the complete absence of tables for identification the recognition of the species has seemed difficult. The following tables and notes are based on an examination of Smith's types in the British Museum, and it is hoped that they will make it easier for entomologists to further elucidate the subject. There can be no doubt that any resident of Australia who will collect and study these bees will find many new species.

The following abbreviations are used:—(T.) = type specimen examined; s. m. = submarginal cell; r. n. = recurrent nervure; b. n. = basal nervure; t. c. = transverso-cubital

nervure; t. m.=transverso-medial nervure; hind spur=hind spur of hind tibia; area=basal area of metathorax.

PARASPHECODES, Smith.

Similar to *Halictus*, but with head and thorax black and abdomen red or largely so. Males with clypeus yellow, except at sides above. This genus does not differ from *Halictus* in any good structural character, and its separation is only justified by the fact that it includes a compact and easily recognized group of species. In his generic diagnosis Smith says that the first r. n. always meets the second t. c.; but this is not invariably the case. So far as I know, the hind spur of the female is always without spines or teeth. The following table separates Smith's species:—

8.

	0.		
	First r. n. entering basal corner of third s. m.; size smaller; abdomen red, with only the apex slightly blackish; flagellum entirely black	sulthica, Sm.	(T.)
	First r. n. entering second s. m. not far from its end	1.	
]	. Flagellum ferruginous beneath; size rather large; a black cloud on third abdominal segment and		
	segments 4 to 6 all black; area coarsely wrinkled	altichus, Sm.	(T.)
2	Flagellum entirely black	2. stuchila, Sm.	(T.)
	red	hilactus, Sm.	(T.)
	₽.		
	First r. n. entering second s. m. near apex; red of abdomen quite bright; area often without		
	longitudinal ridges or wrinkles First r. n. meeting second t. c.; red of abdomen	1.	
	darker or duller; area with longitudinal ridges or wrinkles	3.	
1	Abdomen red, only faintly blackened apically; area dull, without distinct wrinkles or ridges;		
	hind spur simple; second s. m. higher than broad	lithusca, Sm. 2.	(T.)
6	2. Smaller; red of abdomen very bright, hind margins of segments 1 and 2 darker; clypeus		
	with few large punctures on a shining surface; mandibles strongly dentate; hind spur simple;	tualitus Sus	(T) \
	second s. m. about as high as broad Larger; red of abdomen darker, chestnut colour, hind margins of segments 1 and 2 not darkened; area with a delicate raised sculpture;	tuchilas, Sm.	(T.)
	hind spur simple; second s. m. very broad,		

broader than high, and nearly as large as third	lichatus, Sm.	(T.)
prominent; second r. n. and third t. c. much weakened	tilachus, Sm.	(T.)
4. Area with fine wrinkled ridges; abdomen dull and rather hoary; second s. m. about square. Area with fine straight ridges	lacthius, Sm. 5.	(T.)
5. Wings strongly yellowish	taluchis, Sm. hiltacus, Sm.	

P. talchius, Sm., I have not seen. It is described from a male, the face thickly covered with yellow pubescence, and the basal margins of the second and third abdominal segments depressed. The following two new species are in the British Museum:—

Parasphecodes melbournensis, sp. n.

2.—Length about 11 mm.

Wings dusky, stigma dark red-brown; second s. m. higher than broad, first r. n. meeting second t. c.; clypeus shining, with large sparse punctures; antennæ wholly black; pubescence pale fulvous; legs dark; metathorax sharply truncate, the upper lateral corners of the truncation prominent; area broad, without a shining rim, its surface dull and minutely roughened, the basal two fifths covered with little ridges; abdomen rather long, not very shiny, bright red, with extremely minute punctures on segments 1 and 2; first segment largely clouded with blackish; extreme apex blackish; venter lighter and more yellow, the hind margins of the segments darker.

Hab. Melbourne, Australia (collection of F. Smith).

From P. melbournensis (1) P. taluchis differs by the better defined area, with the wrinkles covering its surface, the lighter stigma, &c.; (2) P. hiltacus differs by the smaller, darker, and more shiny abdomen, the upper angles of metathoracic truncation not at all prominent, the strice practically covering area, &c. The area of P. melbournensis, partly striate or ridged and partly not, is especially distinctive.

Parasphecodes Frenchi, sp. n.

♀.—Length about 9 mm.

Clypeus shining, with large close punctures; tegulæ shining piceous, white in front; pubescence white, faintly

tinged with ochreous dorsally; legs black; upper corners of metathoracic truncation not at all prominent; area semilunar, with a shining rim, its surface with nearly straight longitudinal ridges, evanescent posteriorly, but extending over more than half the surface; abdomen broad, very dark chestnut-red, beyond second segment strongly blackened, but not black; sides of second and third segments each with a triangular basal patch of white tomentum; venter strongly blackened; wings almost clear, dusky at apex; stigma sepia, nervures dark brown; first r. n. meeting second t. c.; second s. m. a little higher than broad.

Hab. Melbourne, Australia, June 26, 1892 (French).

From P. Frenchi (1) P. hiltacus differs by its lighter abdomen, without the lateral hair-patches, &c.; (2) P. tilachus differs by being larger, with the area shorter and the lateral hair-patches of abdomen wanting, &c.

HALICTUS.

The following table is based on the specimens in the British Museum:—

Species large or middle-sized, not minute*.... Species minute, about $5\frac{1}{2}$ to $6\frac{1}{2}$ mm. long. 1. Postscutellum with a patch of bright orange tomentum; third abdominal segment with a well-defined large basal patch of bright orange tomentum, ending abruptly on each side in the subdorsal region; legs mainly red; sides of upper border of prothorax covered with bright orange tomentum; marginal cell and beyond and vicinity of basal nervure suffused with fuliginous; area dull, not wrinkled or striate: Q, length $9\frac{1}{2}$ mm. (S. peraustralis, sp. n.† 2. Legs red, or largely so Legs black, or almost 3. Larger; legs dusky red; bases of second and third abdominal segments with a broad band of orange tomen-

it appears to be a valid species.

^{*} In all these the first r. n. meets the second t. c., except that it is just in the apex of second s. m. in *H. conspicuus* and *H. repræsentans*.

† *H. peraustralis* is labelled in the Museum *H. bicingulatus*, var., but

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	tum; upper margin of prothorax with			
	orange tomentum; tegulæ fulvous	bicingulatus, Sm., Q (n. syn.: rufipes, Sm., tertius, D. T.).		
	Smaller; tibiæ and tarsi clear red; ab-	rigipos, emi, cercino, en en,		
	domen without bands, but with con-			
	spicuous patches of ochry-tinged white tomentum at lateral bases of			
	segments 2 to 4; tegulæ lively ful-			
	vous; hind spur simple	conspicuus, Sm., ♀. (T.)		
4.	Larger; abdomen black, punctured,			
	without hair-patches; hind spur			
	simple	curbonarius, Sm., \mathcal{P} . (T.) 5.		
5.	Stigma black, or practically so; area	·		
	very finely and minutely wrinkled	oblitus, Sm., ♀. (T.)		
0	Stigma brown or reddish	6.		
6.	Clypeus with a yellowish-white band; face with much white hair; whole			
	insect very hairy	lanuginosus, Sm. (T.)		
	Clypeus all black	7.		
7.	Area with strong regular striæ. (Tas-	, G , O , (TI)		
	mania.) Area more feebly and irregularly sculp-	repræsentans, Sm., ♀. (T.)		
	tured	8.		
8.	Larger and more hairy	lanarius, Sm., ♀. (T.)		
	Smaller and less hairy	convexus, Sm., Q. (T.)		
9.	Abdomen green; mesothorax with a very bright green colour, but dull			
	surface; scutellum shining	floralis, Sm., Q*. (T.)		
		(n. syn. vividus, Sm.)		
	Abdomen red, at least in part; meso-			
	thorax green, which separates these species from <i>Parasphecodes</i>	10.		
	Abdomen black or dark brown	12.		
10.	Mesothorax with very large shallow			
	punctures; abdomen very shiny, red	munotatasa Sm. O. (T.)		
	at sides	punctatus, Sm., \mathfrak{P} . (T.)		
11.	Mesothorax very shiny; abdomen red,			
	with only first segment darkened	vitripennis, Sm., ♀. (T.)		
	Mesothorax duller; abdomen with the apical part dark	anhandaidea Sm. O. (T.)		
12.	Mesothorax black; abdomen dark	sphecodoides, Sm., ♀. (T.)		
	brown, segments 3 to 5 pilose; second			
	r. n. and third t. c. almost obsolete.	7.7 C O (T)		
	(Tasmania.)	globosus, Sm., Q . (T.) 13.		
13.	Mesothorax peacock-green; abdomen	10,		
	shining; hind spur with 3 spines	urbanus, Sm., ♀. (T.)		
	Mesothorax dark	14.		

^{*} $H.\ {\it floralis}$ is from Australia; Dalla Torre erroneously gives the locality as New Zealand.

There are three Tasmanian species, *H. familiaris* (Erichs.), *H. orbatus*, Sm., and *H. cognatus*, Sm., which I have not examined. The last, according to Smith, is probably the

male of H. globosus, Sm.

The presence of ordinary-looking small *Halicti* in the most remote regions is rather remarkable. The following are from New Zealand and Christmas Island (Indian Ocean). The latter locality does not belong to the Australian region, but it is so near to it that its species are of interest in the present connexion.

- Halictus Smithii, D. T. (familiaris, Sm.), Q (T.). New Zealand.—Ordinary-looking small black species; hind spur simple; stigma fulvous; first r. n. meets second t. c.; basal nervure very strongly bent.
- H. sordidus, Sm., ? (T.). New Zealand.—Ordinary small species; head and thorax black, abdomen very dark reddish brown; first r. n. joins second s. m. a short distance before its end.
- H. Binghami, W. F. Kirby, Q (T.). Christmas Island.— Ordinary-looking small black species; hind spur with very few spines; area large, with fine raised lines, like the veining of a fern-leaf; second and third abdominal segments with basal hair-bands; third s. m. rather large, but its outer side with only a single gentle curve.
- H. Andrewsi, W. F. Kirby, \(\text{T.} \). Christmas Island.—
 Smaller than Binghami; yellowish green, with red legs; venation of Chloralictus; hind spur with few long saw-like teeth.

XXXI.—On Munidopsis polymorpha, Koelbel, a Cave-dwelling Marine Crustacean from the Canary Islands. By W. T. CALMAN, D.Sc.

THE British Museum (Natural History) has lately received from Mr. Fairfax Prevost some specimens of a Galatheid Crustacean collected by him in a cave on the island of Ann. & Maq. N. Hist. Ser. 7. Vol. xiv. 15